

1310 nm LASER DIODE MODULES**UNCOOLED MQW-FP LD WITH RECEPTACLE****FEATURES**

- 2 1310 nm typical emission wavelength
- 2 $P_f \geq 3\text{mW}$ @ $I_{th}+20\text{ mA}$
- 2 High reliability, long operation life
- 2 High temperature operation without active cooling
- 2 Build-in InGaAs monitor

APPLICATION

Trunk Line, FitL

DESCRIPTION

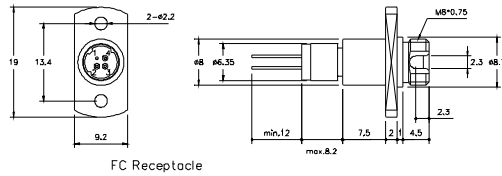
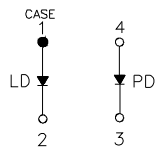
FL-3500 series are designed for coupling a single mode optical fiber with 1310 nm MQW-FP uncooled laser diode. FL-3500 series are the best kits as light sources for telecom and datacom applications.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25 °C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{th}	Threshold Current	CW		12	15	mA
V_{OP}	Operating Voltage	CW, $I_F=I_{th}+20\text{mA}$		1.2	1.5	V
P_f	Optical Output Power	CW, $I_F=I_{th}+20\text{mA}$	3.0		-	mW
λ_c	Center Wavelength	CW, $I_{th}+20\text{mA}$	1290	1310	1330	nm
$\Delta \lambda$	Spectral Width	CW, $I_{th}+20\text{mA}$, RMS		1	3	nm
t_r, t_f	Rise And Fall Times	$I_F=I_{th}$, $I_{th}+20\text{mA}$, 10~90%			0.3	ns
$\Delta P_f / P_f$	Tracking Error	APC, -40~+85 °C	-	-	±1.0	dB
I_m	PD Monitor Current	CW, $I_{th}+20\text{mA}$, $V_{RD}=1\text{ V}$	100			$\mu\text{ A}$
I_D	PD Dark Current	$V_{RD}=5\text{V}$			0.1	$\mu\text{ A}$
C_t	PD Capacitance	$V_{RD}=5\text{V}$, $f=1\text{MHz}$		10	15	pF

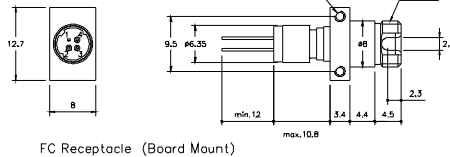
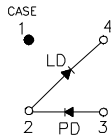
ABSOLUTE MAXIMUM RATINGS (T_C=25 °C)			
Symbol	Parameter	Ratings	Unit
P_o	Optical Output Power	4	mW
V_{RL}	LD Reverse Voltage	2	V
V_{RD}	PD Reverse Voltage	10	V
I_{FD}	PD Forward Current	1.0	mA
T_{opr}	Operating Temperature	-40~+85	°C
T_{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT

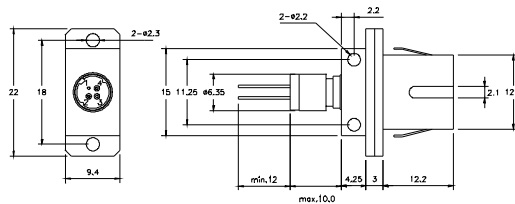
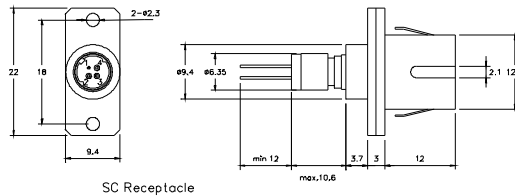
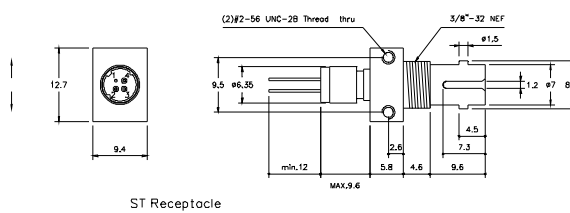
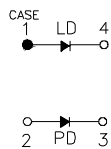
Type A



Type B



Type C



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: F L - 3 5 4 ☐ ☐ - ☐ ☐

Code	Pin Assignment
0	Type A
5	Type B
8	Type C

Code	Speed
Blank	1.25 Gbps
S	2.5 Gbps

Code	Connector Type
S	SC/PC
SB	SC/PC (Board Mount)
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC

Code	Isolator
Blank	No
S	Single-Stage